DM-74S

7.4” DSTN Display

USER’S MANUAL

Ver 1.0

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Chapter 1 Product Information

1.1 Introduction

Welcome to purchase the DM-74S 7.4" DSTN color LCD. The DM-74S is made for the system manufacturers, integrators or VARs that want to provide all the performance, quality and reliability. The DM-74S is designed with 640 x 480 resolution color display and Low Reflection to present a High Image Quality. With its compact size (7.4"), DM-74S is also the most suitable solution for OA Equipment, Display Terminals, and Industrial portable Workstation LCD monitors. The DM-74S comes with specifically designed mounting kit for fast installation. It is also *Plug and Play*, can be directly and easily connected to JUKI, NOVA, POS series main boards and also PLC-655 and PLC-508 LCD control card without any addition parts needed.

1.2 Specifications

- Active Area : 152.4mm x 115.0mm
- Viewing Area : 149.7mm x 112.7mm
- Number of Pixels Single Supply Voltage : +5V
- Outline Dimensions : 205.5mm x 141.0mm x 7.0mm
- Panel Size : 7.4" Diagonal
  : 640 (W) x 480 (H)
- Pixel Format : 1 pixel = R + G + B dots
- Pixel Arrangement : R, G, B Vertical Strip
- Pixel Pitch : 0.078mm (H) x 0.235mm (V)
- Brightness : 65 cd/m^2
- Viewing Direction : 6 o'clock (in direction of max. contrast)
- Viewing Angle : +/- 60^o (H), $-40^o \sim +60^o$ (V)
- Contrast Ratio : 30

- Surface Treatment : Anti-glare and Hard Coat
- Backlight : Cold-cathode fluorescent lamps for side lighting
- Operating Temperature : 0~50^{o}C
- TTL Input
- RS232 I/F Touch Panel (option)

1.3 What You Have

In addition to this *User's Manual*, the DM-74S package includes the following items:

- DM-74S User's Manual
- VGA cable (1.8M)
- Spare parts for panel mounted
- Screw spare parts

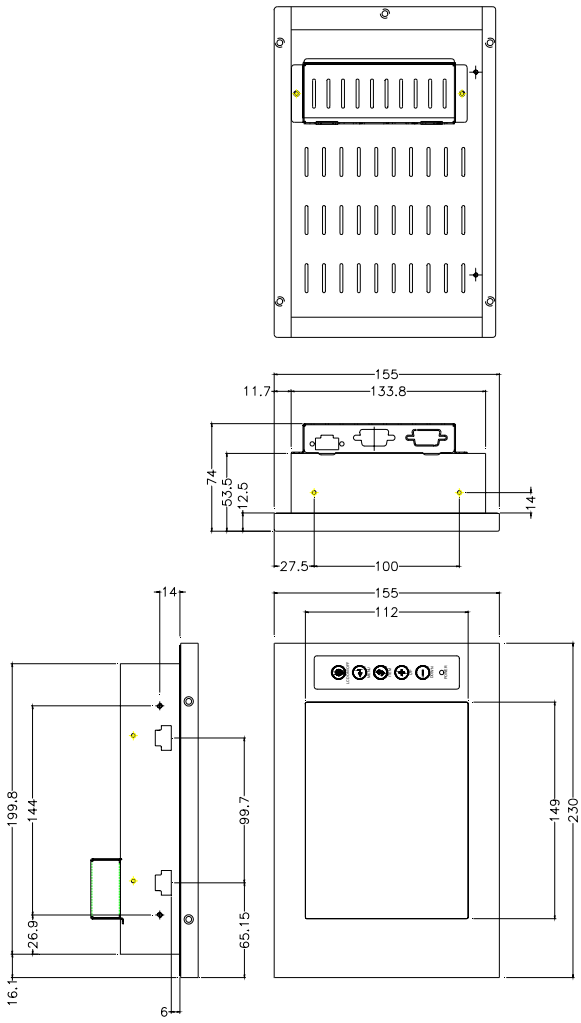
If any of these items is missing or damaged, contact the dealer from whom you purchased the product. Save the shipping materials and carton in case you want to ship or store the product in the future.

1.4 Mechanical Dimensions

The following drawing indicate the dimension of DM-74S.

Front Panel : 230.0 mm x 155.0mm x 12.5mm(WxHxD)

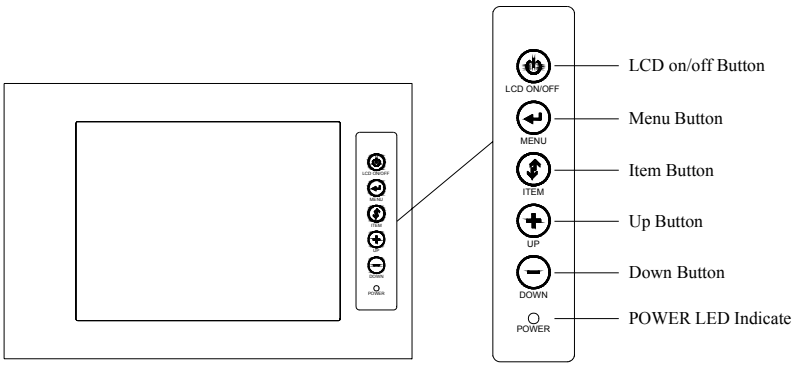
Cabinet : 199.8mm x 133.8mm x 61.5mm(WxHxD)



Chapter 2 System Setup

This DM-74S is very easy to be set up for operation.
As you set up your system, please refer to the following procedures.

2.1 Front Panel Operation



Menu Button

When repeats to press this button, it will sequentially open OSD window page-1, change to page-2, change to page-3 and close OSD windows for User Mode OSD or sequentially open OSD window page-1, change to page-2, change to page-3, change to page-4, change to page-5, and close OSD windows for Manufacturer Mode OSD.

Item button

There are many items in each page OSD windows. As users press this button, users will scroll the select bar down to next item.

Down button

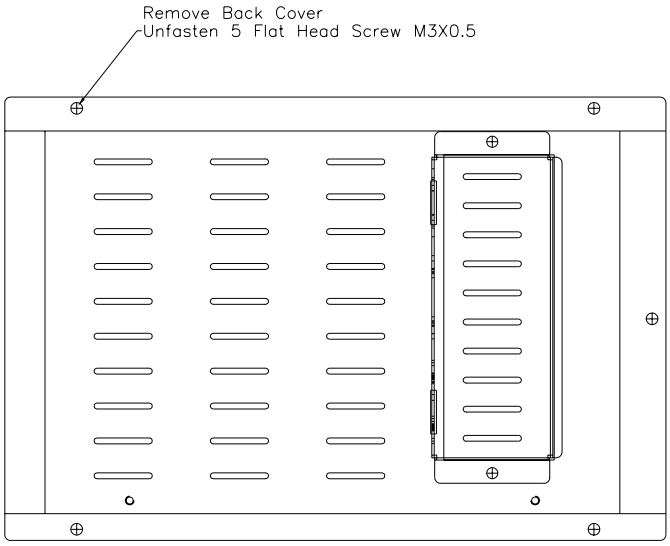
Press it adjust the value down of slide bar or to switch the selected item to another. (Ex. YES/NO). The adjusting result will be directly record into 24c16.

Up Button

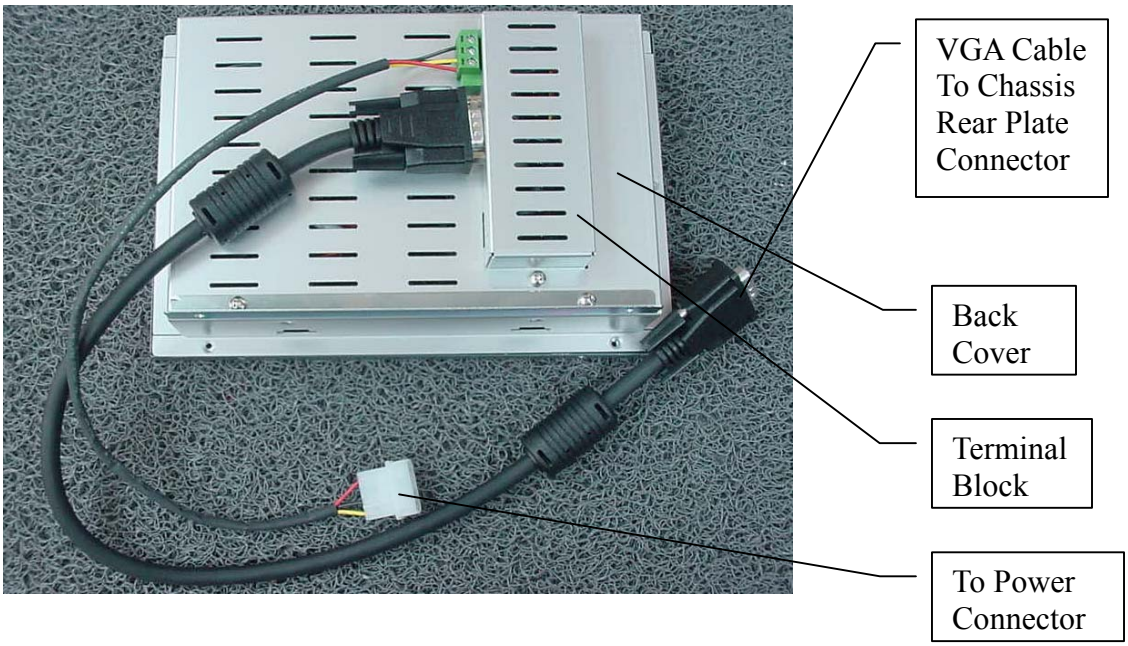
Press it to adjust the value up of slide bar or to switch the selected item to another (Ex. YES/NO).
The adjusting result will be directly record into 24c16. When OSD windows is off and under " Over Size "

Display mode, the button is using the screen-swap position.

2.2 Remove Back Cover

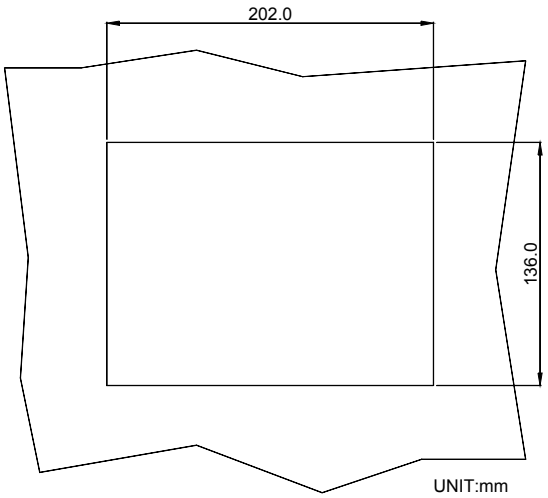


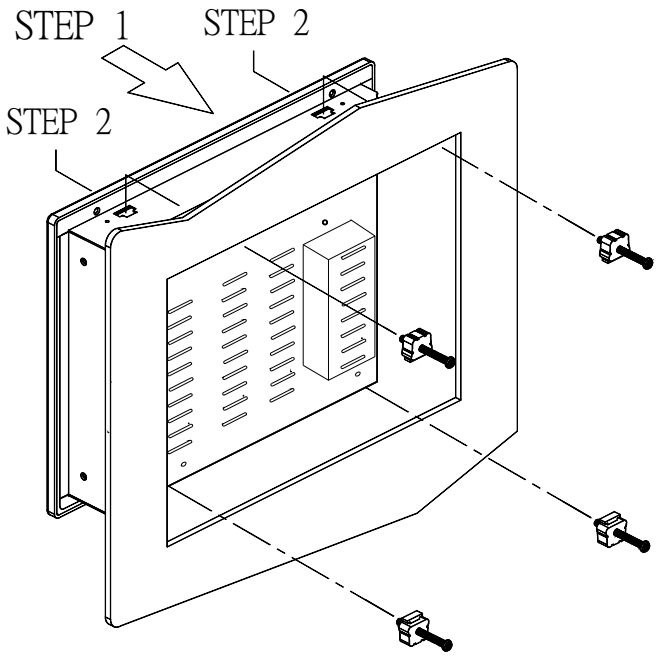
2.3 LCD Installation

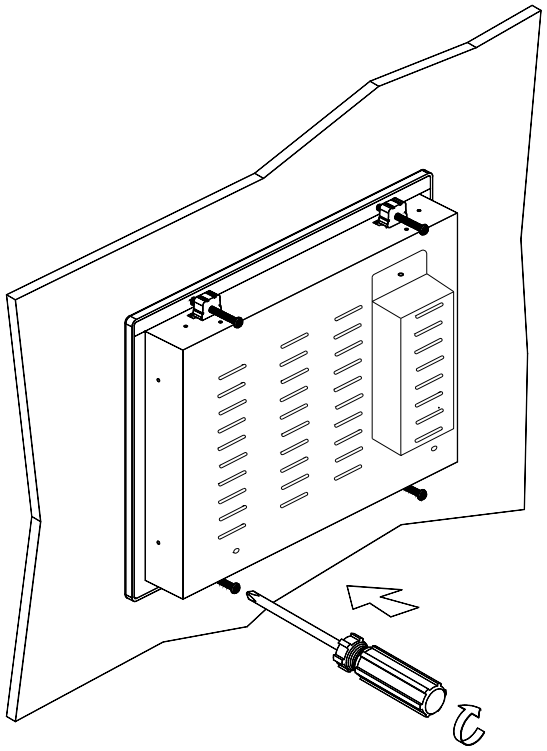


2.4 Mounting Setup

DM-74S is suitable for Panel mounting.
As you mount this flat panel display, please refer to diagram below.



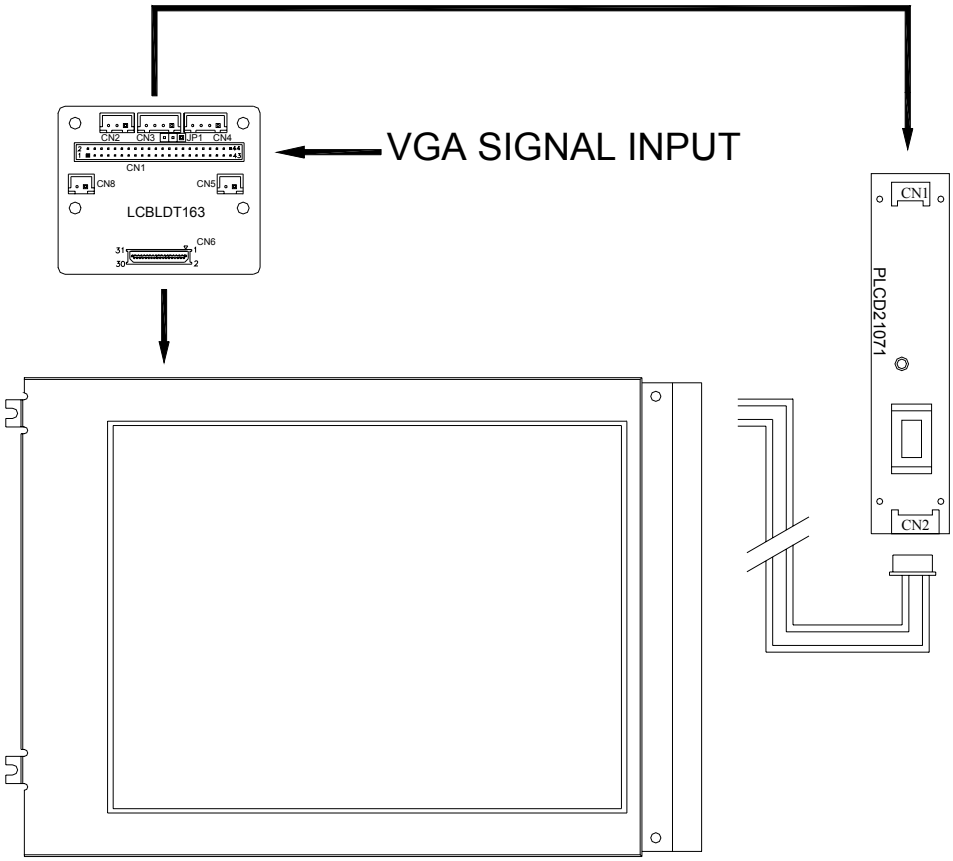




Chapter 3 DM-74S Connectors

This chapter describes how to install the DM-74S and include all connections description such as jumpers, connectors and switches setting. The layout of DM-74S connectors is shown on the chapter. Also the Unpacking Precautions are shown on appendix that you should be careful with are described on the following page.

7.4” LCD Connection Board Layout



Appendix: Unpacking Precaution

- ✓ Some components on DM-74 are very sensitive to static electric charges and can be damaged by a sudden rush of power. Ground yourself to remove any static charge before touching your DM-74S. You can do it by using a grounded wrist strap at all times or by frequently touching any conducting materials that is connected to the ground.

- ✓ Do not touch the inner side of LCD panel and the connector/cable of fluorescent lamp/backlight when the power is on. The inverter supplies HIGH VOLTAGE to these parts (~ 550Vrms).

- ✓ Disconnect power supply before handling and doing connection on DM-74S. Do not plug any connector or jumper while the power is on. It will cause fatal damage to your LCD panel.

- ✓ Make sure that every connector is connected in correct direction. Any incorrect connection may cause smoke or burn of electrical parts or fatal damage of your LCD panel.

- ✓ Be careful with the liquid crystal material. Do not swallow, inhale or have skin contact with this material in case that the LCD panel is broken and the liquid flow out. If you inhale the liquid material, rinse your mouth immediately with water then go to see a doctor. If you have skin contact with the liquid, wash it immediately with alcohol. Be careful, too, with the chips of glass if the panel is broken.

- ✓ For outdoor usage, an ultra-violet ray protect-lens is recommended to apply onto LCD display. It will prevent your LCD from strong sun-light, scratches, dust and water invasion etc. which can cause damage to the LCD display.